

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Kouta FUKUI Group Art Unit: 1752

Application No. 10/658,470 Examiner: Thorl Chea

Filed: September 10, 2003

For: PHOTOTHERMOGRAPHIC MATERIAL, AND IMAGE FORMING METHOD

USING SAME

## DECLARATION UNDER 37 C.F.R. §1.132

Honorable Commissioner of Patents and Trademarks P.O. Box 1450, Alexandria, Virginia 22313-1450

## Sir:

I, Kouta Fukui, do declare and state as follows:

I graduated from the Tokyo Institute of Technology,
Interdisciplinary Graduate School of Science and
Engineering with a Master's Degree in Engineering in March
1990;

I joined Fuji Photo Film Co., Ltd. in April 1990, and since that time I have been engaged in research and development in the field of silver halide photographic light-sensitive materials at Ashigara Research Laboratories (presently Medical Systems Development Center); and

I am familiar with the Office Action of October 10, 2006, and understand that the Examiner has rejected Claims 5 to 8 under 35 U.S.C.§ 103(a) as being unpatentable over Asanuma et al. (USP 6,146,822) and Biegler et al. (U.S. Patent No. 5,600,396).

The following additional experiments were carried out under my supervision in order to make the advantages of the subject matter disclosed and claimed in the aboveidentified application more clear.

## Experiment:

Samples 1 to 15 were prepared in the same manner as the coated sample 225, 324, or 326 of the working examples 5 and 9 shown in columns 67 to 71 and 78 to 84 of the specification of Asanuma, and are within the scope of the photothermographic material formed by coating a watercontaining solution used in the method of the present invention. Samples 1 to 15 were subjected to thermal development under the same conditions as those for Example 1 of the present invention except that the activated carbon filter was necessarily used and the time lengths therefor were varied as shown in the following Table 2. The thus developed samples were then evaluated in the same manner as for Example 1 of the present invention. The

results of the evaluation tests are shown in Table 2.

It is understood from Table 2 that Samples 3 to 5, 8 to 10, and 13 to 15, for which the image forming method that was used is within the scope of the present invention since the time for thermal development therefor is in a range of 7 to 15 seconds as claimed in the present invention, show unexpectedly remarkable effects in the suppression of odor and the volatilization remaining ratios of the phthalazine derivative and phthalic acid derivative compared to Samples 1, 2, 6, 7, 11 and 12, for which the image forming method that was used is outside the scope of the present invention since the times for thermal development therefor exceed 15 seconds.

Table 2

		_	1	_									1	_	Т	
Remarks(**)		O.E	O.E	The invention	The invention	The invention	ĊE	C.E.	The invention	The invention	The invention	C.E.	C.E.	The invention	The invention	The invention
Quantitative analysis	Phthalic acid derivative	19	11	N.D.	N.D.	N.D.	15	8	N.D.	N.D.	N.D.	15	8	N.D.	N.D.	N.D.
	Phthalazine derivative	11	5	N.D.	N.D.	N.D.	9	4	N.D.	N.D.	N.D.	8	9	N.D.	N.D.	N.D.
Odor		×	×	0	0	0	×	×	0	0	0	×	×	0	0	0
Photographic performance	Отах	3.2	3.2	3.1	3.1	3.1	3.0	3.0	3.0	3.0	2.9	3.3	3.3	3.3	3.3	3.2
	Dmin	0.05	0.05	0.04	0.04	0.04	0.07	90'0	90.0	0.05	0.04	0.07	90'0	90'0	0.05	0.04
Time for Thermal development (sec)		20	17	15	13	10	20	11	15	13	10	20	17	15	13	10
	Setup	Set up	Set up	Set up	Set up	Set up	Set up	Set up	Set up	Set up	Set up	Set up	Set up	Set up	Set up	
Phthalic acid derivative	Volatilization remaining ratio at 160°C	866	%66	%66	%66	%66	%66	%66	%66	%66	%66	866	%66	866	%66	866
	Type ID in Asanuma	II-22(*)	[1-22(*)	II-22(*)	II-22(*)	II-22(*)	11-2	11-2	11-2	11-2	11–2	11-2	11-2	11-2	II-2	11-2
Phthalazine derivative	Volatilization remaining ratio at 160°C	71%	71%	71%	71%	71%	75%	75%	75%	75%	75%	72%	72%	72%	72%	72%
	Type ID in Asanuma	I-1-16	I-1-16	1-1-16	1-1-16	1-1-16	I-1-2	I-1-2	1-1-2	1-1-2	1-1-2	1-1-10	1-1-10	I-1-10	1-1-10	I-1-10
Coated sample No. in Asanuma		225	225	225	225	225	324	324	324	324	324	326	326	326	326	326
Sample No.		_	2	က	4	2	မ	7	œ	6	10	=	12	13	14	15

(\*) It should be noted that II-1 used in coated sample 225 of Asanuma is NOT a Phthalic acid derivative, and thus is not taken into consideration herein.

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<sup>(\*\*)</sup> C.E.: Comparative example

07- 3-12;15:10 ;TAIYO, NAKAJIMA&KATO

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U/- 3- 3;1U:22 ;IAIYO, NAKAJIMA&KAIO

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further, that these statements were made with the knowledge that willful false statements and like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

DATE: March 9, 2007

Kouta FUKUI

Kouta Fukur